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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: Mon Aug 13 15:16:20 EDT 2007

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Application No: 10576807 Version No: 1.1

Input Set:

Output Set:

Started: 2007-08-13 15:15:47.946
Finished: 2007-08-13 15:15:48.651
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 705 ms
Total Warnings: 10
Total Errors: 0
No. of SeqIDs Defined: 12
Actual SeqID Count: 12

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W 213	Artificial or Unknown found in <213> in SEQ ID (10)
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SEQUENCE LISTING

<110> Clark, Janet

<120> METHOD FOR IDENTIFYING COMPOUNDS THAT
AFFECT EXPRESSION OF TRYPTOPHAN HYDROXYLASE ISOFORM 2

<130> 21487YP

<140> 10/576,807

<141> 2006-04-21

<150> PCT/US2004/34619

<151> 2004-10-20

<150> 60/514,268

<151> 2003-10-24

<160> 12

<170> FastSEQ for Windows Version 4.0

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<211> 447

<212> PRT

<213> Mus musculus

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Glu Arg Gly Arg Val Thr Leu Ile Phe Ser Leu Glu Asn Glu Val Gly
20 25 30

Gly Leu Ile Lys Val Leu Lys Ile Phe Gln Glu Asn His Val Ser Leu
35 40 45

Leu His Ile Glu Ser Arg Lys Ser Lys Gln Arg Asn Ser Glu Phe Glu
50 55 60

Ile Phe Val Asp Cys Asp Ile Ser Arg Glu Gln Leu Asn Asp Ile Phe
65 70 75 80

Pro Leu Leu Lys Ser His Ala Thr Val Leu Ser Val Asp Ser Pro Asp
85 90 95

Gln Leu Thr Ala Lys Glu Asp Val Met Glu Thr Val Pro Trp Phe Pro
100 105 110

Lys Lys Ile Ser Asp Leu Asp Phe Cys Ala Asn Arg Val Leu Leu Tyr
115 120 125

Gly Ser Glu Leu Asp Ala Asp His Pro Gly Phe Lys Asp Asn Val Tyr
130 135 140

Arg Arg Arg Arg Lys Tyr Phe Ala Glu Leu Ala Met Asn Tyr Lys His
145 150 155 160

Gly Asp Pro Ile Pro Lys Ile Glu Phe Thr Glu Glu Glu Ile Lys Thr
165 170 175

Trp Gly Thr Ile Phe Arg Glu Leu Asn Lys Leu Tyr Pro Thr His Ala
180 185 190

Cys Arg Glu Tyr Leu Arg Asn Leu Pro Leu Leu Ser Lys Tyr Cys Gly
195 200 205

Tyr Arg Glu Asp Asn Ile Pro Gln Leu Glu Asp Val Ser Asn Phe Leu
210 215 220

Lys Glu Arg Thr Gly Phe Ser Ile Arg Pro Val Ala Gly Tyr Leu Ser
 225 230 235 240
 Pro Arg Asp Phe Leu Ser Gly Leu Ala Phe Arg Val Phe His Cys Thr
 245 250 255
 Gln Tyr Val Arg His Ser Ser Asp Pro Leu Tyr Thr Pro Glu Pro Asp
 260 265 270
 Thr Cys His Glu Leu Leu Gly His Val Pro Leu Leu Ala Glu Pro Ser
 275 280 285
 Phe Ala Gln Phe Ser Gln Glu Ile Gly Leu Ala Ser Leu Gly Ala Ser
 290 295 300
 Glu Glu Thr Val Gln Lys Leu Ala Thr Cys Tyr Phe Phe Thr Val Glu
 305 310 315 320
 Phe Gly Leu Cys Lys Gln Asp Gly Gln Leu Arg Val Phe Gly Ala Gly
 325 330 335
 Leu Leu Ser Ser Ile Ser Glu Leu Lys His Ala Leu Ser Gly His Ala
 340 345 350
 Lys Val Lys Pro Phe Asp Pro Lys Ile Ala Cys Lys Gln Glu Cys Leu
 355 360 365
 Ile Thr Ser Phe Gln Asp Val Tyr Phe Val Ser Glu Ser Phe Glu Asp
 370 375 380
 Ala Lys Glu Lys Met Arg Glu Phe Ala Lys Thr Val Lys Arg Pro Phe
 385 390 395 400
 Gly Leu Lys Tyr Asn Pro Tyr Thr Gln Ser Val Gln Val Leu Arg Asp
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 Thr Lys Ser Ile Thr Ser Ala Met Asn Glu Leu Arg Tyr Asp Leu Asp
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 35 40 45
 Lys Glu Pro Gly Lys Gly Asp Thr Thr Glu Ser Ser Lys Thr Ala Val
 50 55 60
 Val Phe Ser Leu Lys Asn Glu Val Gly Gly Leu Val Lys Ala Leu Arg
 65 70 75 80
 Leu Phe Gln Glu Lys His Val Asn Met Leu His Ile Glu Ser Arg Arg
 85 90 95
 Ser Arg Arg Arg Ser Ser Glu Val Glu Ile Phe Val Asp Cys Glu Cys
 100 105 110
 Gly Lys Thr Glu Phe Asn Glu Leu Ile Gln Leu Leu Lys Phe Gln Thr
 115 120 125
 Thr Ile Val Thr Leu Asn Pro Pro Glu Ser Ile Trp Thr Glu Glu Glu
 130 135 140
 Asp Leu Glu Asp Val Pro Trp Phe Pro Arg Lys Ile Ser Glu Leu Asp
 145 150 155 160
 Arg Cys Ser His Arg Val Leu Met Tyr Gly Thr Glu Leu Asp Ala Asp

165	170	175
His Pro Gly Phe Lys Asp Asn Val Tyr Arg Gln Arg Arg Lys Tyr Phe		
180	185	190
Val Asp Val Ala Met Gly Tyr Lys Tyr Gly Gln Pro Ile Pro Arg Val		
195	200	205
Glu Tyr Thr Glu Glu Glu Thr Lys Thr Trp Gly Val Val Phe Arg Glu		
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Leu Ser Lys Leu Tyr Pro Thr His Ala Cys Arg Glu Tyr Leu Lys Asn		
225	230	235
Leu Pro Leu Leu Thr Lys Tyr Cys Gly Tyr Arg Glu Asp Asn Val Pro		
245	250	255
Gln Leu Glu Asp Val Ser Met Phe Leu Lys Glu Arg Ser Gly Phe Thr		
260	265	270
Val Arg Pro Val Ala Gly Tyr Leu Ser Pro Arg Asp Phe Leu Ala Gly		
275	280	285
Leu Ala Tyr Arg Val Phe His Cys Thr Gln Tyr Val Arg His Gly Ser		
290	295	300
Asp Pro Leu Tyr Thr Pro Glu Pro Asp Thr Cys His Glu Leu Leu Gly		
305	310	315
His Val Pro Leu Leu Ala Asp Pro Lys Phe Ala Gln Phe Ser Gln Glu		
325	330	335
Ile Gly Leu Ala Ser Leu Gly Ala Ser Asp Glu Asp Val Gln Lys Leu		
340	345	350
Ala Thr Cys Tyr Phe Thr Ile Glu Phe Gly Leu Cys Lys Gln Glu		
355	360	365
Gly Gln Leu Arg Ala Tyr Gly Ala Gly Leu Leu Ser Ser Ile Gly Glu		
370	375	380
Leu Lys His Ala Leu Ser Asp Lys Ala Cys Val Lys Ser Phe Asp Pro		
385	390	395
Lys Thr Thr Cys Leu Gln Glu Cys Leu Ile Thr Thr Phe Gln Asp Ala		
405	410	415
Tyr Phe Val Ser Asp Ser Phe Glu Glu Ala Lys Glu Lys Met Arg Asp		
420	425	430
Phe Ala Lys Ser Ile Thr Arg Pro Phe Ser Val Tyr Phe Asn Arg Tyr		
435	440	445
Thr Gln Ser Ile Glu Ile Leu Lys Asp Thr Arg Ser Ile Glu Asn Val		
450	455	460
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<213> Artificial Sequence

<220>
<223> TPH2a riboprobe template

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<213> Artificial Sequence

<220>
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cctgagagca tttggacgga ggaagaagat ctcgaggat 219

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<212> DNA
<213> Artificial Sequence

<220>
<223> TPH2c riboprobe

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aaaagcgagg acaagaaaaag cggcaaagag cccggcaaaag ggcacaccac agagagcagc 180
aagacagcag ttgtttctc cttgaagaat gaagttggtg ggctggtgaa agcacttaga 240
ctattccagg aaaaacatgt caacatgctt catatcgaat ccaggcggtc cccgcgaaga 300
agttctaagt cgaaatcttc gtggactgcg aatgtggca aacggattc aatgagctca 360
tccagttgct gaaatttcag accaccattt tgaccctgaa tccgcctgag agcatttgg 420
ccggaggaaga agatctcgag gatgtgccgt gggtccctcg gaagatctct gagttagaca 480
gatgctctca ccgagtcctc atgtacggca ccgagcttga tgccgaccat ccaggattta 540
aggacaatgt ctatcgacag aggaggaagt attttggta tggccatg ggctataaat 600
atggtcagcc cattcccagg gtcgagtaca cagaagaaga gactaaaact tggggtgttg 660
tggccgggaa gctctccaaa ctctacccga ctcatgcttgc cccggagttac ctgaaaaacc 720
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<212> DNA
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<220>
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ggctatcgaa aagacaacat cccgcaactg gaggatgtct ccaacttttt aaaagaacgc 180
actgggtttt ccatccgtcc tggctgtgt taccttcac cgagagattt tctgtcgggg 240
ttagcctttc gagtcttca ctgcactca gatgtgagac acagttcaga tcccccttac 300
actccagagc cagacacactg ccatgaactc ctggccacg ttccctcttt ggctgaaccc 360
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gttcaaaaac tggcaacgtg ctacttttc actgtggagt ttggctgtg caaacaagat 480
ggacagctga gatgtttgg ggccggcttg ctttcttca tcagtgaact caaacatgca 540
ctttctggac atgccaaagt caagccctt gatcccaaga ttgcctgtaa acaggaatgt 600

ctcatcacga gtttcagga tgtctacttt gtatctgaga gctttgaaga tgcaaaggag 660
aagatgagag aatttgc当地 gaccgtgaag cgcccgttg gactgaagta caacccgtac 720
acacagagtg ttccaggttct cagagacacc aagagcataa ctatgtccat gaatgagttg 780
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<210> 8
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27

<210> 12
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<223> Murine TPH2 probe mTPH2-1292T

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26